

## ABSTRACT

A data and voice digital communication network installation and networking method, including a plurality of packet communication networking hubs, logically configured in a hierarchy of at least two tiers, a transmission backbone network linking said hubs, including at least one light transmitting fibre with means to extract signals from and apply signals to the fibre which are at least a proportion of end to end signals being carried by the fibre, said signals being extracted to and received from the packet communications networking hubs, at a plurality of selected locations, including at least one which is not located at a primary hub, wherein the logical configuration of a given hub is substantially independent of its physical connectivity to the transmission backbone network.